

PATENT CLAIMS
Patent Claims

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1 An evaporator, especially for the sugar industry, with at least two heat exchangers (4, 5), into the top of which the medium (M) to be concentrated is loaded and which are heated with steam (D1, D2) with different compositions and different pressures in a cross stream, wherein the concentrated medium and the exhaust steam generated after coming out of the heat exchangers (4,5) are carried off separately,

characterized by the fact that

10 the medium being concentrated (M) is loaded by a medium distribution (7) common to all heat exchangers (4,5) and by the fact that the medium (M) leaving heat exchanger (4) goes directly into the next heat exchanger (5),

by the fact that only after the medium (M) comes out of the second heat exchanger (5) are the exhaust steam and the medium (M) separated

15 and by the fact that the steam spaces (12, 18) in the heat exchangers (4, 5) separated from the exhaust steam space (8) are separated from one another by a common dividing wall (19).

20 2. The evaporator in Claim 1, characterized by the fact that the condensate from the heat exchangers (4, 5) is carried away in separate pipes.

3. The evaporator in Claim 1 or 2, characterized by the fact that the heat exchangers (4, 5) are made of different materials.

25 4. The evaporator in Claims 1 to 3, characterized by the fact that the first heat exchanger (4) is heated with exhaust steam from a steam dryer for pulp and the second heat exchanger (5) with turbine steam from a power plant, for example.

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